
Global Update

Overview

The Global Update function is available in both the Station Configuration and the CPND configuration dialog box. It lets you change common data values in each of selected items in the main application window (Station list or CPND list) either directly or through a confirmation option.

The Global Update procedure involves the following steps:

- 1** Select those list items that you wish to update. The Select feature may be used to select stations based on specific criteria.
- 2** Select a field for update.
- 3** Define the update or updates to perform on a selected field in the selected items.
- 4** Execute the change.

You can perform the update on all selected items directly, or you can do it through a confirmation option on an item-by-item basis.

If you are running in Installation mode, you are prompted to set up communication with Meridian 1 whenever you modify a data record. You can synchronize the data now, schedule a time for synchronization, or cancel the prompt and schedule synchronization later. See “Communicating with Meridian 1” on page 75.

Selecting Data Items

In a data list window of Station Configuration or CPND Configuration, select the items you wish to update. You can change the current selection as follows:

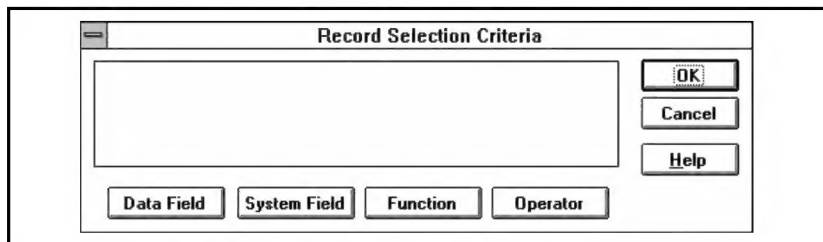
- Click to select a single item.
- Use the Space bar to turn off all selections and select only the first station in the list. This method of selection turns off all other selections, leaving only the single current selection.
- To select multiple stations, hold down the <Shift> key and click a station, or press the space bar, to toggle the selection status of that station without affecting other selections. If you hold down the shift key you can use the up/down arrow keys to add the next adjacent item to the highlighted list.

You can use the Edit - Select All menu option to select all items, or you can define criteria to select a group of stations using the Edit - Select menu option. “Define Selection Criteria” on page 60 provides details on using the Select feature.

Define Selection Criteria

To define criteria for record selection, choose **Edit - Select** in the Station view of the Station Configuration window or in the CPND Configuration window. This displays a Record Selection Criteria dialog in which you enter the expression defining the selection criteria.

Figure 19
Record Selection Criteria dialog



An expression is a formula that follows standard mathematical conventions regarding the use of brackets ({}) and the order of operations (add, subtract, multiply, or divide). Operations can act on numeric data or on field values from the MAT database. Field names must be exactly as defined in the MAT database. You can enter the desired expression by typing it in the text box directly, or by using the selection criteria and operation buttons provided.

The dialog has buttons that allow you to select fields, operators, and functions to build a valid expression. You may have to modify the position of brackets when completing the expression. Use the following function buttons to insert a field or operator at the cursor position:

Data Field: Available field names from the Station or CPND record as defined in “Station Data Manipulation” on page 21 or “CPND Data Manipulation” on page 47 (LastName, DN, or Location, for example).

System Field: Available MAT system fields (Time or Date, for example). System fields are defined in “Select System Field” on page 62.

Function: Functions operate on a field to generate a value that depends on the field value—Length, Minimum, Maximum, and so on.

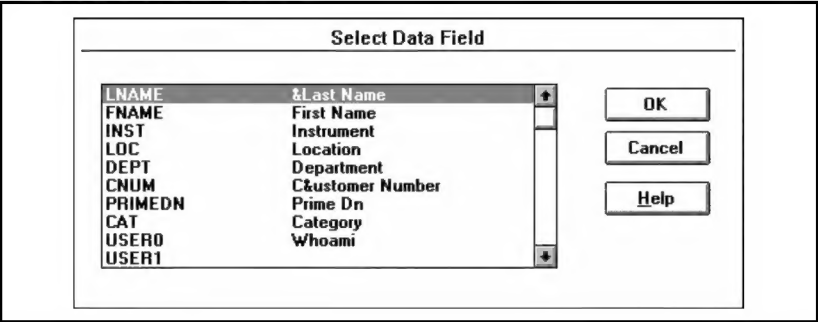
Operator: Arithmetic or Boolean operators—plus, divide, and OR, for example.

When you have finished creating a valid expression, choose **OK** to display the Station configuration window—those items which fit the criteria are highlighted. You can still modify this selection as described in “Selecting Data Items” on page 60.

Select Data Field

When you choose **Data Field**, a list of available fields is displayed in a Select Data Field dialog:

Figure 20
Select Data Field dialog

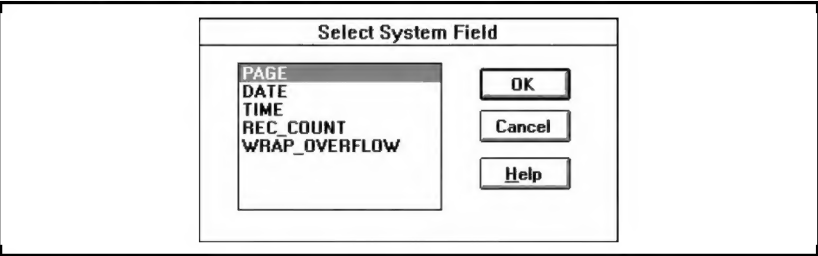


Select the desired station field name and choose **OK** to paste the field into the Select Criteria expression text box at the current cursor position. You can type a letter to scroll the listing to the next item starting with that letter.

Select System Field

When you choose System Field, a list of available fields is displayed in a Select System Field dialog.

Figure 21
Select System Field dialog

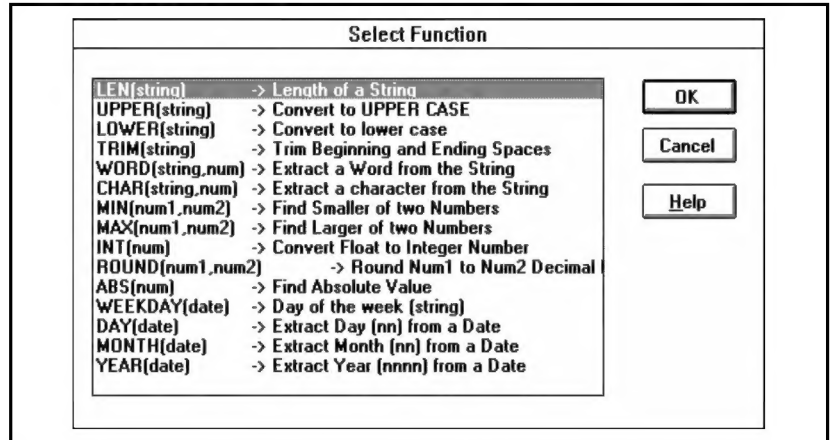


Select the desired field name and choose **OK** to paste the selected field name into the Select Criteria expression text box at the current cursor position.

Select Function

A function may generate a value on its own, or it may act on the field directly after it in the expression to produce a value that depends on that field value. When you choose Function, a list of available functions is displayed in a Select Function dialog.

Figure 22
Select Function dialog

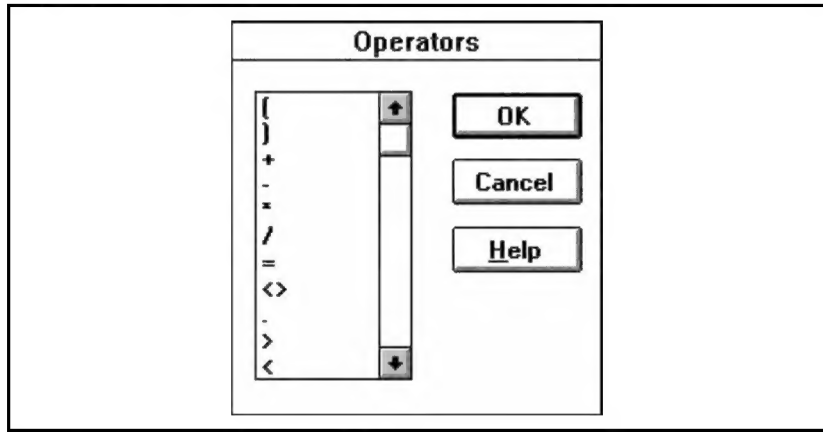


Select the desired field name and choose **OK** to paste the selected function name into the Select Criteria expression text box at the current cursor position.

Select Operator

An operator causes a mathematical combination of field values (arithmetic, Boolean, conditional, and so on). When you choose Operator, a list of available operators is displayed in an Operators dialog.

Figure 23
Operators dialog



Select the desired operator and choose **OK** to paste it into the Select Criteria expression text box at the current cursor position.

Selecting the Items for Change

When you have completed the selection criteria expression, choose **OK** to return to the Configuration list window. All items that meet the defined criteria are highlighted.

Example Expressions

Below are examples of selection expressions to help you understand the SELECT feature.

Example 1

Select all stations that have been changed in the MAT database since the last Transmit to the switch.

The SYNCH field shows synchronization for the sets in relation to the switch database. If the synch status of the set is TRN (for transmitted) then all changes have been transmitted to the switch and the data is in synch with the switch. Any other status (NEW, OUT, CHG, RPL) identifies a set that has been changed on MAT and needs to be transmitted to the switch (see the Sync Status section on page 7 for details.)

In order to select all stations that need to be transmitted, you can either select all stations in NEW, OUT, CHG or RPL status or you can simply select all sets that are not in TRN status. The selection will be the same in either case. For this example, we'll choose all sets that are not in TRN status:

Under EDIT choose **SELECT**

a) From the Data Field list choose **SSTAT**

b) Click <> (not equal to) from the Operator list (or simply type in <>)

c) Type in **"TRN"** (Note: all strings must be enclosed in parenthesis. Column 2 in the Data Field List identifies the field as either a string or numeric)

The complete command in the Record Selection Criteria edit box will show:

STATION->SSTAT<>"TRN"

Note that instead of following steps a-c you may simply type in the expression above.

d) Click

All stations will be selected except those in TRN status.

Example 2

Select all stations with a prime DN between 4000 and 5000.

To select all stations within this range, select all sets with PRIMEDN>4000 and PRIMEDN<5000. MAT will allow you to do this by following these steps:

Under EDIT choose SELECT

- a Select PRIMEDN from the Data Field List
- b Select> from the Operator list (or simply type in >)
- c Type in “4000”
- d From the Operator list select **.AND.**
- e Select PRIMEDN from the Data Field List
- f Type in “5000”

The complete command is:

STATION->PRIMEDN>”4000”.AND.STATION->PRIMEDN<“5000”

- g Click OK

All stations that have a prime DN between 4000 and 5000 will be selected.

Example 3

Select all M2616 sets with class of service CFXA.

Under Edit choose **Select**

- a Select **INST** from the Data Field list
- b Select = from the Operator list (or simply type it in)
- c Type “**M2616**” (criteria is case sensitive; make sure you use a capital M)
- d Select **.AND.** from the Operator list
- e Select **CFXA** from the Data Field List (the mnemonic CFXA represents Call Forward which can be either allowed “CFXA” or denied “CFD”)
- f Type in = “**CFXA**”
- g Click **OK**

All M2616 type stations with Call Forward External Allowed (CFXA) will be selected.

Specify the Change

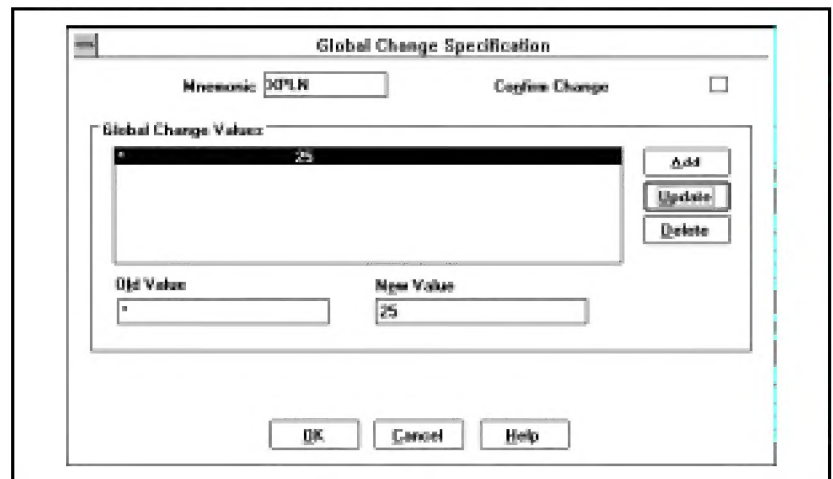
You can perform a global update on a single field in each item selected in the list window. Once you have selected the desired items for update, you select the field to change.

Select the Field to Change

When you choose Global Update from the Edit menu, the Select Data Field dialog list appears. The fields listed include only those that can be changed globally. For example, the Instrument (INST) field is not included in this list because some of the fields and their values in the record depend on the instrument.

When you have selected the field to change, choose **OK** to display the Global Change Specification dialog. The selected field name is displayed in the Mnemonic box. The example below shows the entries required to change all selected station Departments to "Dept_X",

Figure 24
Global Change Specification dialog



The Global Change Values edit list box lets you set up the changes in the field values of the field indicated by the Mnemonic box. The list box contains a list of changes that you define by entering values in the Old Value and New Value fields.

Note: The Old and New Value text boxes are case-sensitive. The values must be entered in the same case as is used in the MAT database. For example, “**Dept._ B**” and “**Dept._ b**” are not the same values.

The following functions are available in the list box:

- **Add:** Insert a new change, defined in the Old Value - New Value text boxes. In the example above, * (asterisk, the wildcard character) causes any Dept field value to be accepted, and the New Value—**Dept_X**—is added to the list of two items.
- **Update:** Modify the selected change item as defined in the Old Value - New Value text boxes. In the example above, * and **Dept_X** replace the highlighted item.
- **Delete:** Remove the selected change item from the list.

To define a change:

- Select the **Old Value** text box and enter the exact value of the data to be changed.
- Select the **New Value** text box and enter the new value for the field.
- Select **Add** to add this change to the list of changes for this field.

You can repeat this **Add** function for any other values of the field that you wish to change.

If you use an asterisk (*—the wildcard character) in the Old Value field, all records are updated to the New Value.

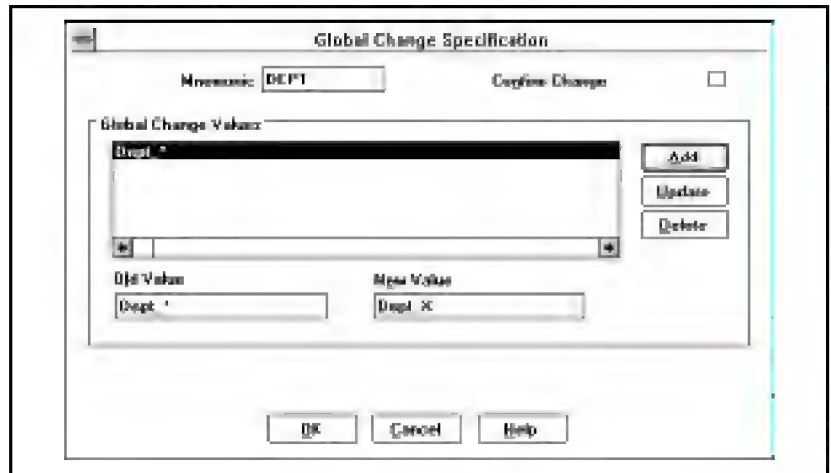
You can decide whether to be prompted on a record-by-record basis or to perform the changes without confirmation by checking or clearing the **Confirm Change** check-box.

When you have completed the required change list, choose **OK** to display the Global Change dialog.

Perform the Global Change

When you select **OK** in the Global Change Specification dialog, the Global Change dialog appears. This dialog is a status dialog only—you cannot edit any of the fields.

Figure 25
Global Change Specification dialog



The dialog contains a Station definition area to identify the station currently being changed. The Change area displays the Old and New Values.

If you are not using change confirmation, a “percentage done” bar informs you of the progress of the changes.

While the change is in progress, the dialog displays the **Cancel** and **Help** buttons. **Help** displays help for this dialog and **Cancel** halts the change task.

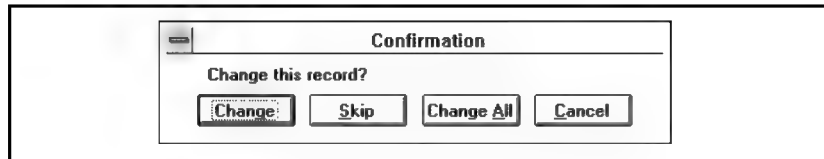
Note: If you use **Cancel**, there is no way of controlling which records are changed and which are not.

When the task is complete, the **Cancel** button is replaced by an **OK** button.

Change Confirmation

If you elected to confirm changes, a Confirmation dialog asks you whether to “Change this record?”, for each station record in turn. The Global Change dialog contains Station identification and Change identification data for the current field.

Figure 26
Confirmation dialog



You can move this dialog in the same way as other Windows dialogs in order to see the progress bar and function buttons in the Global Change box.

The Confirmation dialog displays the following buttons:

- **Change:** Perform the change indicated in the Global Change data box and proceed to the next station.
- **Skip:** Proceed to the next station without changing the current one.
- **Change All:** Proceed with all remaining changes without confirmation.
- **Cancel:** Cancel all remaining changes.

During the change process, the progress bar changes and the Global Change data area is updated.

Change Completion

When the Global Change task is complete, the Confirmation box is cleared, the Global Change box indicates 100% completion, and the **Cancel** button is replaced by an **OK** button.

Choose **OK** in the Global Change dialog to return to the list window.

Global Update—Wildcards, Matching, and Allowed Fields

In Edit/Global Update menu item, you build a list of changes for a single field on the selected records. The list of changes is built by Adding requests to change Old Value to New Value for the chosen field. To improve efficiency and to shorten the list of changes, you may use * (asterisk), the wildcard character. The wildcard matches any value in the field.

Wildcard matches that you specify are always done after the other Old Value matches have failed. Otherwise, matches are attempted in order. For each selected record, the first change request that matches the Old Value is implemented.

Key* allows you to update a feature when the key on which the feature resides is unknown. For example, suppose you wish to update the Conference key on all sets to No Hold Conference/Autodial. The Conference key may exist on any key of the selected station. **Key*** allows you to update the key feature without knowing the key number. MAT searches for the first occurrence of the feature specified, and updates that key per the instructions. See “Global Update—Examples” on page 72 for more detail.

Certain fields on the station may not be changed with the Global update facility:

- Location must be unique for each station, so Global update is not permitted.
- Station type may not be changed with global update.
- Certain administrative features of a station—including color and type cannot be changed.

Global Update—Examples

A few examples are provided below to help you use the Select and Global Update features. These examples provide the basic steps for selecting stations based on certain criteria and updating common fields. These methods can be applied to a variety of Global Update situations.

Example 1

Suppose you wish to change all DNs in the range 4000-4999 to a 5 digit 54000-54999. You wish to apply this change to all stations for Customer 1.

- 1 Global Update is applied to selected stations only. You should therefore select all stations for Customer 1. Use the **Edit - Select** menu item. Click on Data Field and choose the Customer Number field to build the expression **STATION->CNUM = 1**. (The **STATION->CNUM** portion is provided automatically when you select Customer Number from the list of Data Fields).

If there is only one customer on the Meridian 1 system, you may instead use the **Edit - Select All** menu item to select all the stations for this DN change.

- 2 Use the Edit/Global Update menu item to specify the DN change.
 - a Specify the field to be changed in the Select Data Field dialog. MAT provides a special field called All Directory Numbers. You may move the highlight in the Select Data Field dialog until the All Directory Numbers field is highlighted. Click on **OK** to select the All Directory Number field.
 - b In the Global Change Specification, you are asked to build a list of each old value and the new value with which to replace it. The Mnemonic field shows that we are working with the field All Directory Numbers (ADN).

Enter the DN range 4000-4999 in the Old Value box. Move to the New Value box and enter 54000-54999. To enable this change, click on **Add**. The requested change appears in the Global Change Values box. (You may Update or Delete each entry in the Global Values box by clicking the appropriate button.)

When you are satisfied with this change request, click on **OK**.

- c MAT examines each station to see if any changes need to be made. A meter marks MAT's progress through the stations. The **Cancel** button halts the updating process.

For any applicable station, the Global Change dialog displays identifying information for the station and the old and new values that are to be modified.

Example 2

Suppose you wish to change all Conference keys (A03) on all stations to No Hold Conference/Autodial keys (CA). Conference may currently be configured on any key on the selected stations.

- 1 Select the stations to be updated. Since all stations need to be changed, use the **Select All** feature in the Edit menu.
- 2 Use the **Edit - Global Update** menu item to specify the desired change. Choose **Key** from the Select Data Field window. (You may move immediately to the Key mnemonic by typing in the first letter of the mnemonic, **K**.) The Global Update window appears. A list box allows you to specify which key to change. Since you are not sure which key on each station is equipped with Conference, use **KEY***, the default for this list, to update the feature regardless of the key number.
- 3 Enter the existing value of the Key to be changed in the Old Value box, **A03** and **TAB**. (If the KEY you wish to change has parameters, tabbing brings up the parameter fields.) Conference does not have parameters, so tab moves you to the New Value box. Enter the Mnemonic of the new feature (in this case, **CA** for No Hold Conference Autodial). Press the **<Tab>** key to display edit boxes for the parameters associated with the new feature. Enter the appropriate data in the parameter fields.
- 4 You may choose to confirm each change. Once you click on **OK**, MAT begins the updates. MAT searches each selected station for the first occurrence of A03. If A03 is encountered, MAT changes the Key to the new value: CA. Note that if the station contains multiple Conference keys, only the first will be changed. You can run a second global update to change the second appearance of a feature.

Example 3

Suppose you wish to add a feature to the first blank key on each set, but the first blank key may be a different key number on each set.

The choice of **KEY*** for your Global Update criteria will tell MAT to look for the first occurrence of a particular feature on each set selected. When MAT encounters that specified feature it will change that first occurrence to the specified new feature and then proceed to the next set. In the case of this example, the feature we are looking for is a blank feature. Perform the following steps:

- 1** Select all the stations you wish to change
- 2** Select **EDIT-Global Update**.
- 3** Choose **KEYGUPD** (Key Global Update) from the criteria list
- 4** Choose the KEY number **KEY*** (this is the default)
- 5** Enter nothing (blank) in the Old Value, enter the new feature mnemonic and appropriate parameters in the new value. Select Add to add to the Global Update list.
- 6** Click **OK**. All Stations selected will have the new feature added to the first blank key. If a selected set does not have any blank keys, the feature will not be added to that particular set.